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THE HORN SPEAKER

1935

Veri Cards...

It is interesting to read this 1935 article and contemplate how these cards would enhance a collection of old radios.

● IF you have never received one of the many unique and artistic verification cards, or S-W station "veris" as they are commonly called, you have missed the best half of the thrill which every Short-Wave Listener is entitled to. While we may not all agree that it is a grand idea to decorate the four walls of our short-wave "listening post," there are other very attractive ways in which to preserve veri cards, by using a post-card album, etc.

One of the first things to remember in sending for a "veri" card after you have heard a short-wave broadcasting station such as DJD, Berlin, Germany, for example, is to enclose with your letter requesting the "veri" an **International Postage Reply Coupon.** Cash or stamps should not be sent to foreign countries to pay for the mailing of the "veri" to you; only the coupon aforementioned; these coupons cost 9c and you can purchase them at your local post office. Do not paste the coupon to your letter but simple attach it with a clip or pin.

It is always best to print your name and address on both the letter and the envelope going to foreign countries as one of the hardest things in the world is to solve the ordinary handwriting or running script written in a foreign language, as you will probably remember if you have ever tried to read German or French script.

Some people often ask the question whether or not it is necessary to have the complete local address of the short-wave broadcast station, for example, one located in Moscow, U.S.S.R. In most cases if you cannot check up the local or street address, it will be sufficient to address the envelope to the short wave station, for example—Station XYZ (the letters of course to be the exact ones used in broadcasting such as RV59 for Moscow, etc.), together with the name of the city in which the station is located and also the country.

Many short-wave "fans" make a serious mistake in not inquiring at their local post-office as to the exact postage required for a certain foreign country, and this is the reason why "veris" frequently do not materialize. The average is 5c postage for countries such as Europe, Australia, Asia, and Africa. It is also not good practice to simply send a post-card; furthermore the **International Postage Reply Coupons** cannot be sent with a post-card anyway! The reason why it is imperative that you send the Postal Coupons in asking for the verification card of a foreign station is that their postage bill in a year really amounts to quite a sum, as you may readily realize. If you wish to count on receiving that "veri," do not fail to send the Postal Reply Coupon and also state:

The exact "local" time that the program was received and if possible, the Greenwich Meridian Time. Greenwich Time is five hours ahead of Eastern Standard Time; six hours ahead of Central Standard Time; seven hours ahead of Mountain Time; eight hours ahead of Pacific Time, etc. When it is six o'clock E.S.T. for example, it is eleven o'clock Greenwich Time (G.M.T.).

On the Air

by durell roth

During radio's early years, long distance reception was of primary importance to most radio listeners. Basically, the farther away you could hear, the better your receiving system. Contests were held among neighbors to see who could reach out and snag that rare one from over the mountains or across the country and office conversations started with "...guess where I heard last night?"

The listening audience had been given a taste of instantaneous news coverage and live remote broadcasts of entertainment events from all over the country. An undying thurst for news and entertainment from almost anywhere was basic and became the driving force behind the development of more efficient systems and new techniques for improving long distance reception.

The old timers were quick to discover that night time listening during the fall and winter months was the best for long distance receiving. News, plays and the late night dance band remotes, heard over major stations like those in Chicago and New York,came in loud and clear in most parts of the country. Radio was

informative and entertaining and, together with the amber glow of the Philco dial light, added to the warmth of a crackling fire to make those otherwise long, cold nights truly enjoyable.

Now that the fall and winter season is here, it's easy to capture some of the challange and enjoyment of those early years just by hooking up your favorite vintage set and tuning to see what you can hear. Some of the stations will be the same ones that set received years ago. The programing has changed of course, but many of the old shows are being rebroadcast all over the country. Check your local listing for time and station.

Here in Texas, two of the most popular DX stations are WGN Chicago and "... clear channel six fifty WSM Nashville, Tenn". Of course, there are no more official clear channel stations; however, both are still operating and still comming in loud and clear any time after seven o'clock in the evening during fall and winter.

How to Use Earphones on Standard Receivers

Many readers desire to listen to short-wave programs and go DX hunting in the wee small hours of the morning and for this reason they do not desire to have the loud speaker going full blast. In this article we endeavor to show methods of using commercially available adapters for applying earphones to short-wave receivers which are not already equipped for them.

Listening in this way with earphones will not disturb other members of the family.

● VERY few all-wave receivers if any are equipped with provisions for earphone operation. However, there are numerous ways of using earphones on one of these sets without materially damaging or changing the wiring of the set. This can be accomplished by the use of simple adapters, which can be purchased from any reliable radio store. These adapters are fitted over the prongs of the power amplifier tube and the earphone connections made to small terminals which are brought out at the side of the wafers or adapters.

In Fig. 1 we show the circuit drawing for using one of these adapters on a type 45, 71 or any other three-element "filament-type" tube. One side of the earphones is connected through a .1 mf. 600 volt condenser to the plate prong of the tube. The other connection from the earphones goes direct to the metal chassis or ground connection on the receiver.

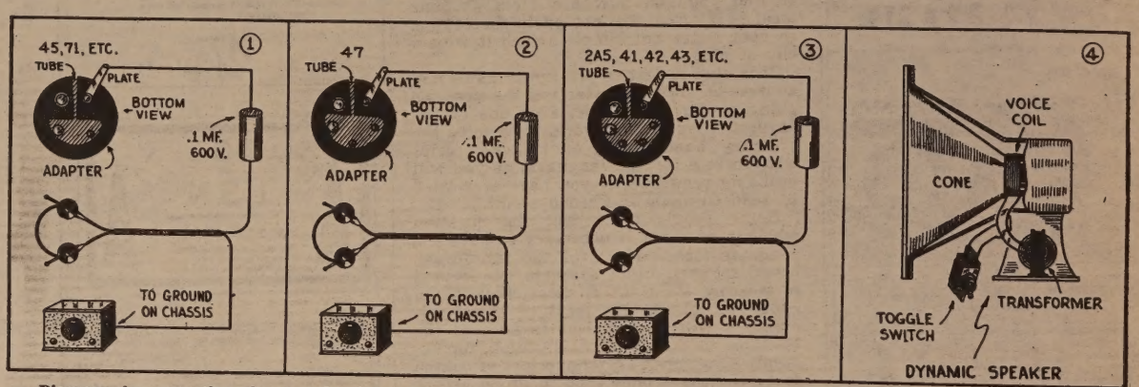
In Fig. 2, we have essentially the same connection, but the tube is a five-prong affair known as the pentode with directly heated filaments. In Fig. 3 the circuit shows the connections for a heater-cathode type tube such as the 2A5, 41, 42, and 43.

All of the tubes mentioned so far are the power tubes of the receiver and it is really necessary that you have a circular or some other piece of literature describing the positions of the various tubes in your set in order that the proper one may be selected for the connection of the earphones.

If your receiver uses "class B" audio amplification by all means do not connect the phones to these tubes. The instruction pamphlet with the receiver will reveal that there is another tube known as the "driver" tube. In the circuit diagram of the receiver this tube comes before the "class B" amplifier and it is on this tube that the adapter should be placed. Make doubly sure that the condenser you are using is of reliable manufacture; otherwise if it should short due to the high voltage, there will be a direct short circuit between the plate of one of the tubes and the B negative and either destroy the earphones or one of the amplifier transformers.

So far we are using the earphones and the loudspeaker is still operating. In order to quiet the speaker it is necessary to connect a switch across the voice coil of the speaker in order that it can be short circuited. Just an ordinary single pole single throw toggle switch is all that is necessary. This should be connected across the points indicated in diagram 4. When the voice coil is "shorted" the speaker will be quiet. However, it is not advisable to turn the volume control on the set too far advanced as there is not the proper load on the audio amplifier tubes and it is not really an ideal condition under which to operate them. However, as we said before if the volume control is not advanced too far, and it won't be if you are obtaining normal earphone volume, there is no danger of damaging either the tubes or the transformers.

When asking your local radio dealer for an earphone adapter it is advisable to first obtain the information regarding the tube arrangement of your receiver. Then explain that you wish to connect earphones to the audio amplifier of your receiver. If you do not feel capable of making the proper installation, the best method would be to obtain the services of a local serviceman and have him install the proper adapter and shorting switch for the loud speaker. Most servicemen today are familiar with all wave receivers and with the job properly done you will obtain excellent earphone reception.



Diagrams for connecting phones and quieting speaker. Warning: don't attach phones to sets having "Class B" amplifiers. Also do not "short" the voice coil, otherwise the amplifier tubes and transformers may be damaged.

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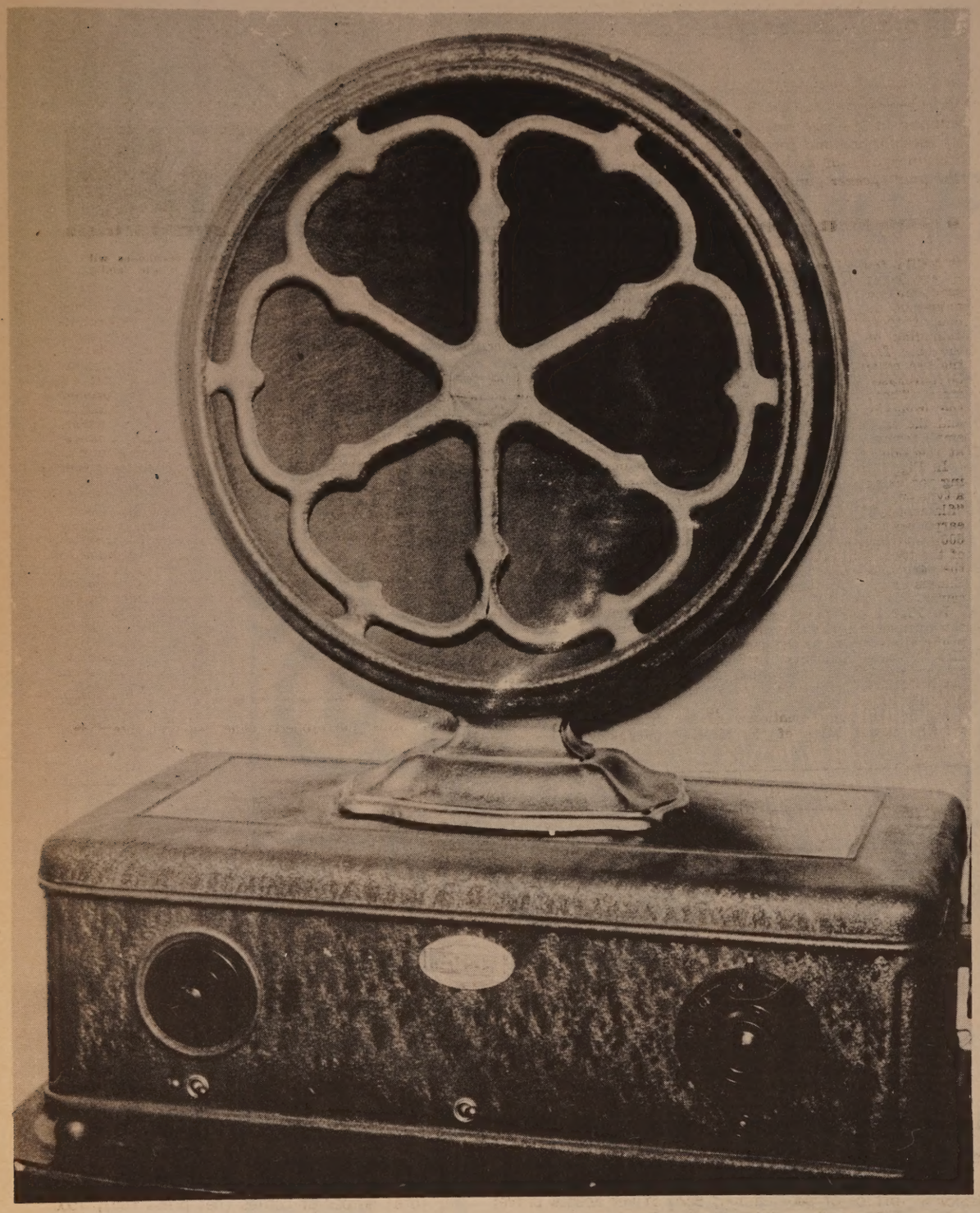
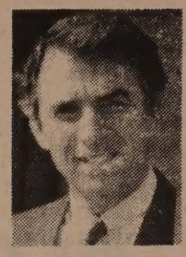


A good looking 1928 Atwater Kent model 44 AC with 8 tubes and originally priced at $65.00. Some collector has the toggle switch swinging sideways. It should switch up and down. Setting the Atwater Kent model E speaker on top of the radio is a modern touch, something a 1928 user would not have done.



Darwin Payne

Isn't it sad that so many younger people have no warm recollections of the golden years of radio?

Radio to them means the "Top 40" tunes played to the raucous chatter of a deejay. That's all. Rock music or perhaps country music or maybe even "golden oldies."

To me, some of the fondest memories of my childhood center around those moments spent near the radio with the rest of the family listening to the great comedy or music shows--Jack Benny, Amos 'n Andy, Baby Snooks, The Great Gildersleeve, The Railroad Hour, The Eddie Cantor Show, etc, etc. What magical, happy times those were as we listened to our favorite characters and imagined in our heads a marvelous, faraway and glamorous world, laughing together as a family.

In the afternoons I never missed my "serials"--those 15-minute adventure shows for kids such as Hop Harrigan, Jack Armstrong, the Green Hornet, etc., followed by the 30-minute show, The Lone Ranger.

All of these were regular things, though, not to match the very special, very exciting occasions when you could hear the heavy championship boxing matches. Did anybody ever miss these fights? Not in our South Dallas neighborhood.

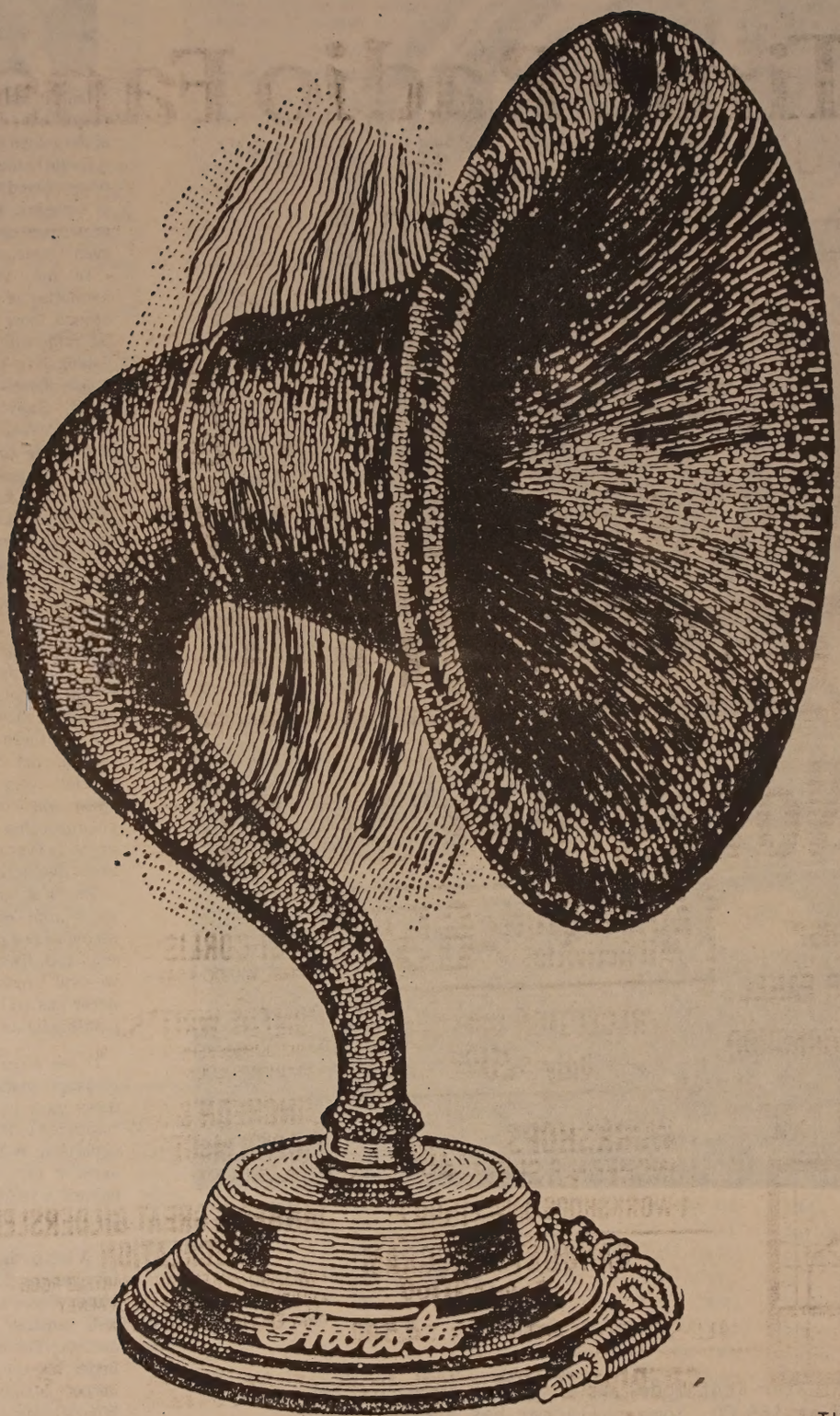
The first one that made such a vivid impression on me was the second Joe Louis-Billy Conn fight. And from then on, for many years, we--and I mean the entire family--**never** missed listening to the championship fights.

To see a real heavyweight championship bout on TV occasionally these days is nothing, NOTHING, compared to the intense excitement generated by the frantic, dramatic tones of the radio announcer who painted a vivid picture in words for us..

"A left to the chin stuns Wolcott--his eyes are glazed, his legs are wobbling...There's a right to the jaw, a left, another left to the midsection...There's a trickle of blood under his eye...He's looking to his corner...leaning against the ropes. What's holding him up?...."

THE SUBURBAN TRIBUNE

September 25, 1987



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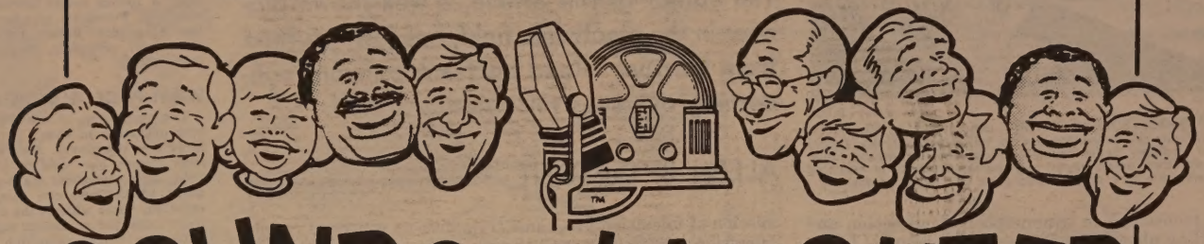

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WAS ~~IS~~ TELEVISION IN AMERICA ASLEEP?

Photo—R.P.S.

TELEVISION-TUBE ASSEMBLY LINE. The Philips Laboratories in Eindhoven, Holland, push out cathode-ray tubes for use in television receivers almost as though they were ordinary radio receiver tubes! The cathode-ray tube becomes practically worthless unless almost superhuman accuracy in assembly is maintained; experts are here shown working on the "stem assembly."

The author of this article, a well-known pioneer in the electronic field, has just returned from Europe. Read his frank opinions concerning overseas television.

ALLEN B. DuMONT

EUROPE is pioneering in commercialized television and thereby pulling ahead of us by leaps and bounds, I find, after having recently visited leading workers in England, France, Belgium and Holland (thereby securing a true insight as to Europe's television situation).

We might better imitate our English friends in commercializing our own achievements, instead of voicing so much loose talk. Instead of promising and predicting and boasting, the English have gone ahead with regular television broadcasting which, in turn, has given rise to a very sizable television industry. I venture to say that our overseas friends have learned more in 6 *months* of such practical efforts than we can learn in 6 more *years* of continued laboratory work behind more or less sealed doors.

TELEVISION AN "EVOLUTION," NOT "INVENTION"

As I see it, television is an evolution and not a single invention. It is a development that must come out of practical experience. Kept in the laboratory for another few years, if that be the unfortunate decision of our radio leaders, we may not know the right answers relative to (1) *technique*, (2) *program*, (3) *service areas*, (4) *networks* and (5) *economics* until we have made a real "try". So the sooner American television goes on a *regular program basis*, with television sets made available to the public—regardless how crude and no matter what the obstacles may be—the sooner we are going to realize practical television.

I was pleasantly surprised to see the British Broadcasting Corporation (or "BBC") operating a television station in the Alexandra Palace, overlooking London. The Palace is surmounted by a mast about 300 ft. tall, making a total height of about 600 ft. The 17-kw. television transmitter sends out its television programs on 6.9 meters.

QUASI-OPTICAL THEORY SHATTERED

With regard to the service range of television transmitters, our English friends have somewhat shattered that "quasi-optical" theory. We have been led to believe that the range is virtually the distance one can see from the television aerial. In other words, signals are not supposed to go beyond the horizon, on the short waves used. Yet the London transmitter is covering a service area of better than 100 miles' radius, and on freak occasions the signals are being picked up at a very great distance, such as in South Africa! (and in the U. S.!; and conversely, BBC has picked up 6-meter television —both audio *and* video—signals originating here in America! These, however, still must be considered only freak performances.—*Editor*) The great covering power of television signals is undoubtedly due to the high sensitivity of the receivers, plus the fact that there is very little static interference on such short waves.

TELEVISION SANS "COAXIAL"

Another fetish blown up by our practical English workers is the absolute need for special coaxial cables for the transmission of television programs from pick-up source to remote television transmitter, and thence, to associated stations of a network. The BBC sends out each day its 3 *television pick-up vans*, in search of interesting news and sporting events. Each truck is completely equipped with cathode-ray tube cameras, microphones, amplifiers, and low-power transmitters operating on about 3½ meters. Sight-and-sound programs are flashed back to the Alexandra Palace station for re-broadcasting to the audience.

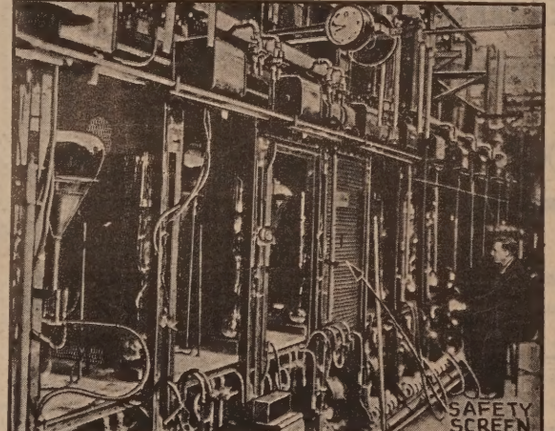
WIMBLEDON TENNIS MATCHES HAD "HOME-TALKIE" QUALITY

I had the pleasure of following the Wimbledon tennis matches via television. The pictures measured about 10 x 12 ins. The pictorial detail was excellent—fully on a par with good home movies. The synchronized sound provides virtually a radio talking movie.

(Incidentally, the Japan Broadcasting Corp. plans to make direct television views of the 1940 Olympic Games to be held in Tokyo available to homes throughout Japan—or, at least, within the limits of Greater Tokyo—according to recent reports!—*Editor*)

The British are using a 405-line screen, with 25 pictures per second, interlaced scanning. There is no flicker, nor is there apparent screen pattern when viewed at the same relative distance as a theatre screen. By holding one's hand at arm's length, with outstretched palm just masking the

(*Continued on page* 306)



Photo—R.P.S.

TELEVISION-TUBE PUMPING RACKS. Tube-factory production facilities in Europe have been taxed to the utmost to meet the tremendous demand for cathode-ray tubes. As shown above, the Philips Works (Holland) now has in use an extensive installation for simultaneous evacuation of a number of even the largest television tubes! A safety screen eliminates the danger of shock from high voltages when the pumping racks are in operation.

screen, we obtain the proper viewing distance for television.

At Kensington Science Museum there are the various makes of British television sets on display. A row of booths provides individual demonstrations. Television programs are received from the Alexandra Palace transmitter or, in the absence of programs, from a local pick-up and transmitter.

WHAT PRICE TELEVISION?

There are some 15 television set manufacturers now operating in Great Britain, of which 8 are large and prominent. *Something like 10,000 sets have already been sold in England.* The average price for an excellent sight-and-sound receiver is about $350. There are cheaper sets, of course, especially those without the dual-receiver arrangement for sound as well as sight reception. I fully anticipate British television sets at under $200, just as soon as manufacturers tool up and swing into mass production, which they will.

Throughout England one sees television sets on display in radio shops, music stores and department stores. The public is keenly interested—something more than passing curiosity which has attended the premature television demonstrations in this country. The British public is interested because they are seeing television programs, and not mere experiments.

One idea which might well be passed on to our American radio merchandisers, in anticipation of their handling television sets some day, is the matter of home demonstrations. One British manufacturer charges the equivalent of $20 for a set installed in any home on a demonstration or trial basis. If the set is purchased, that sum is applied on the payment. If the set is returned, the $20 becomes a rental fee. Thus families wishing to entertain or startle their friends with television entertainment have to pay one way or the other.

Television manufacturers are installing and servicing their sets for the present, to ensure satisfactory results.

Going over to France, I found our French friends lagging behind the British, although keyed up to television possibilities. I visited the laboratory of the pioneer worker Barthelmy, outside Paris. There I found a well-equipped laboratory and studio. They will soon have a television transmitter on the lofty Eiffel Tower, for regular television programs. *France will "go commercial" this Fall!*

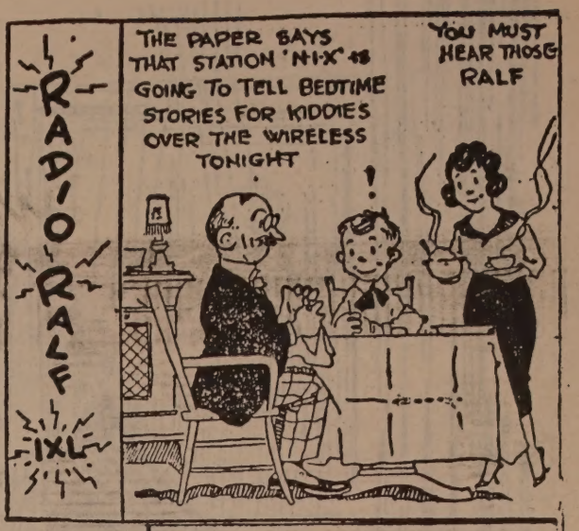
In Belgium and Holland, television is likewise moving ahead. Those smaller countries follow the lead of Britain and nearby Germany. I saw German television demonstrated at the Paris Exposition. The results are splendid, even though the Germans are using 375 lines as compared with the British 405. The Germans plan to go to the American 441-line standard shortly.

CONCLUSIONS

Back in the States again, I cannot help but feel that while we have transmission and reception technique fully equal to anything abroad, we sadly lack in commercial experience. Indeed, we haven't even started. Of course I fully admit the many complications facing television workers here. Our country is vast as compared with compact European countries. We have no tax on radio sets, but prefer to raise the cost of the programs by the commercial sponsorship method. There is much uncertainty as to where the money is to come from in putting on television programs.

Nevertheless, I still feel that a start should be made very soon. Far too long have we been marking time. The many problems of commercialized television will never be solved in advance of the actuality. Television must be a development—out in the field—in everyday use.

No matter how crude the start, no matter how the economics may look at first, no matter how limited the programs and service areas covered, commercialized television will rapidly work out its own salvation, repeating the history of sound broadcasting.


RADIO RALF IXL
THE PAPER SAYS THAT STATION 'N-I-X' IS GOING TO TELL BEDTIME STORIES FOR KIDDIES OVER THE WIRELESS TONIGHT
YOU MUST HEAR THOSE RALF

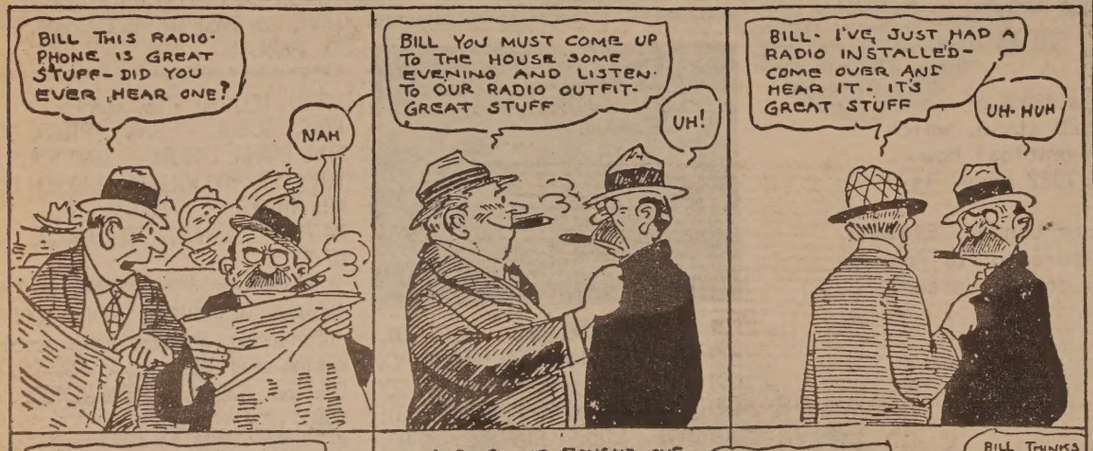
Left: Abstracted from the N. Y. Globe

Right: Abstracted from the N. Y. Evening Telegram

Below: Abstracted from the N. Y. Tribune

1922

OH, MAN!


BILL THIS RADIO-PHONE IS GREAT STUFF - DID YOU EVER HEAR ONE?
NAH
BILL YOU MUST COME UP TO THE HOUSE SOME EVENING AND LISTEN TO OUR RADIO OUTFIT - GREAT STUFF
UH!
BILL - I'VE JUST HAD A RADIO INSTALLED - COME OVER AND HEAR IT - IT'S GREAT STUFF
UH-HUH

OH WELL - I'VE BEEN OVER TO THE BOSKIRKS AND THEY'VE GOT A RADIO PHONE AND IT'S JUST MARVELOUS! WHY CAN'T WE HAVE ONE?
YOU'VE GOT THE BUG TOO EH?
AND SO HE BOUGHT ONE
WELL - I'LL - BE - -!!☆!!
HANK YOU OUGHT TO COME UP TO THE HOUSE AND HEAR MY RADIO - IT'S GREAT STUFF
BILL THINKS HE'S DISCOVERED SOMETHING
WHY CERTAINLY YOU JIMP: - I'VE GOT ONE OF MY OWN - I'VE BEEN TELLING YOU
HE'S A NUT ON THAT SUBJECT
BRIGGS

1920 Model

In 1920 (before radio loud speakers were in common use) "AMPLION" Loud Speakers produced for radio by Alfred Graham & Co. "AMPLION" trademark registered.

In 1922 Amplions adopted as standard equipment by leading makers of radio sets abroad.

1922 Model

The 1926 Amplion AR-19 "Dragon" has more of an exciting style than the earlier 1920 style, which as horn speakers go, is rather conventioal However, the "footing" system of the 1922 model is rather daring.
In 1924 Alfred Graham and Company of London, England, patentees, allowed the Amplion Corporation of America to market and manufacture Amplions in the United States.

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FOR SALE: PHONOGRAPH COLLECTION, RED GEM $700; BLACK GEM $450; BLACK GEM $450; BLACK GEM $375; BLACK GEM $350; FIRESIDE $475; FIRESIDE $450; STANDARD $375; STANDARD $400; STANDARD $400; STANDARD $400; STANDARD $400; STANDARD $400; STANDARD WITH WOOD HORN $1800; STANDARD $400; HOME $425; HOME $375; LONG BOX HOME $475; HOME $425; TRIUMPH WITH FLOWERED HORN $1500; MAHOGANY OPERA WITH WOOD HORN $4200; AMBEROLA 50 $400; AMBEROLA 30 $375; AMBEROLA XA $390; AMBEROLA X $390; AMBEROLA CVI $475; VICTOR M WITH WOOD HORN $2,000; VICTOR O WITH MAHOGANY HORN $900; VICTOR M WITH WOOD HORN $2,000; VICTOR II WITH WOOD HORN $1,900; HARMONY WITH MORNING GLORY HORN $650; HARMONY $275; AERTINO BACK MOUNT $575; STANDARD OPEN WORKS $675; STANDARD A $475; STANDARD A $475; BUSY BEE $325; COLUMBIA WITH LID $300; PUNK $495; COLUMBIA EAGLE $375; COLUMBIA EAGLE $300; CAMERA PHONE WITH LEATHER $200; TALKS PHONE $550; COLUMBIA AH ORNATE $950; COLUMBIA BN $700; 800 CYLINDER RECORDS IN BOXES: —— PERSONAL COLLECTION $4,000. 400 DISK RECORDS, MOST IN ALBUMS $400; 25 EXTRA HORNS— CYGNETS, MORNING GLORY BELLS, ETC. $2,500; 15 BOXES OF PARTS, REPRODUCERS, ETC. FREE WITH COLLECTION OF PHONOS; CATHEDRAL, TOMBSTONE AND CONSOLE RADIOS; NOVELTY RADIOS; OTHER ANTIQUES; STELLA DISK MUSIC BOX $1,800; TWO CYLINDER MUSIC BOXES, BOTH $500; PREFER TO SELL ENTIRE LOT FOR $33,500.00 OR MIGHT SELL SOME SEPARATES AT A BETTER PRICE. CHUCK SEIDEL, CALL DAY (503) 479-4282.

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FOR SALE: RADIOS, SPEAKERS, TUBES AND RELATED ITEMS, LSASE, BRINGS 4 PAGE LIST. FRANKLIN HAAS, 909 DARLOW DRIVE, McPHERSON, KS 67460.

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FOR SALE: BILL PUGH'S RADIO COLLECTION, speakers, collector tubes, A B and C power supplies plus a shop full of misc. tubes and parts. Must sell all as a package. Please send SASE to: Dorthy Pugh, 2126 E. Myrtle, Phoenix, AZ 85020, or (602) 943-6782 for specifics.

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50 YEAR COLLECTION HARD TO FIND TUBES: LOW LOW PRICES, INQUIRE, M. LEVY, 101 EAST DRIFTWOOD #44, FBG, TX 78624.

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RADIO RELATED TIE CLASPS, LAPEL PINS, R.C.A. - G.E.- PHILCO, ETC. FULL ENAMEL EMBLEMS. SEND S.A.S.E. FOR LIST. YOU WILL BE GLAD YOU DID. MR. MICHAEL S. SABODISH, SR., 11-A MATAWAN AVENUE, CLIFFWOOD, NJ 07721.

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INDIANA HISTORICAL RADIO SOCIETY information and membership application send SASE to: IHRS, 245 N. Oakland Avenue, Indianapolis, IN 46201

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FREE —— FOR NEWLY ISSUED FLYER, no. 187. Send 2 stamp SASE to: Olde Tyme Radio Company, 2445 Lyttonsville Road, Silver Spring, MD 20910.

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SUBSCRIBE TO "antique Radio Collectors Newsletter," 6 issues for 1987 are $7.50, sample copy $1.00. Antique Radio Laboratories, R 1, Box 41, Cutler, IN 46920.

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STROMBERG CARLSON MODEL 601, 6-01A's INCLUDED, HAS VOLTMETER IN

PANEL, $175.00. — KELLOGG MODEL 510 WITH TUBES. TOP OF THE LINE 1928, $175.00 —— LYRIC 7 TUBE MODEL 60, $100.00 ——— RAY MINER, 1215 B. FT. MADISON, IA 52627 — (319) 372-1271.

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FOR SALE: A. J. EDGECOMB NAVY TYPE TUNER FROM "THE WIRELESS SHOP." CIRCA 1917. MINT. AUTHENTIC TAG FROM THE GREENWOOD COLLECTION. MAKE OFFER. F.A. NICHOLS, 720 E. ELDORADO ST., APPLETON, WI 54911.

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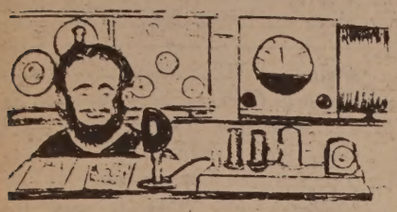

Hi, I'm Newt, and I've been making radio circuits since the late 1930's (see Breadboard AMer Is A Golden Oldie, Jan 78, ELEMEN. ELECTR.), and have developed circuits for EKI and MFJ as well as have taught radio in the army & at private trade schools. I am author of COLOR TV SERVICING and CB & 2-WAY RADIO REPAIRING, publ. Nelson Hall, Chicago. Now I am too old to find work, and am somewhat diabled, yet don't get a cent from VA or SSI. In order to complete qualifying for social security, I am selling hobby electronic plans. Newt Smelser, 1030 N. Main, Springfield, MO 65802.

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FOR SALE, AERIOLA SR. receiver type RF, with original paper in cover. One I, Radiola type AC manufactured by Westinghouse, original metal plate in lid. Cases are excellent. Selling as is, two units for $200.00. Cleon L. Boothe, Box 235, Cohocton, NY 14826.

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FOR SALE —— JULIETTE VOICE OPERATED MIKE NOS $6.00. — ANTENNA SW. DPDT CONTACTS MTD. ON 1X1 SQ 2 IN. HIGH CERAMIC POST 4"X6" OLD, BUT GOOD CONDITION $10.00 —— ARGONNE AR-81 DUEL NEEDLE TURN OVER PHONO CART. FOR 33 OR 78 RPM $4.00. ADD SHIPPING. SASE FOR PARTS LIST. ENGLAND, 98 MONTAGUE, ZANESVILLE, OH 43701.

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RADIO RELATED TIE CLASPS AND LAPEL PINS— ALL NEW LISTS— MANY NEW ITEMS— PUT YOUR FAVORITE RADIO ON A 2 1/4 INCH PLASTIC BUTTON. SEND L.S.A.S.E. FOR DETAILS AND ILLUSTRATED LIST. MR. MICHAEL S. SABODISH, 11- A MATAWAN AVENUE, CLIFFWOOD, CLIFFWOOD, NJ 07721.

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CONSOLE RADIOS: CROSLEY MOTOR DRIVEN art deco, Zenith Black Dial, Majestic 91, Majestic 131, Zenith Super IX. All for $350.00 negotiable. Battery sets: Echophne V3 $150. Crosley 52-S hard to find, restored $125. Phonos: Columbia Eagle $250, Columbia QQ $250. Trade: Grebe CR12 for AR10, Ozarka portable for what have you? Craig Ball, 10101 Oak Hollow Circle, Austin, TX 78758. (512) 835-7292.

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ANTIQUE RADIOS, three single tube DC sets, regeno three #140, one partial 1 tube set, one radio device?, three unique speakers. All for $300.— RADIO, 29 SOUTH AVENUE, WHITMAN, MA 02382.

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SEVERAL PIECES OF ANTIQUE TESTING EQUIPMENT FOR TRADE. George Arth, 2412 Washington, Lexington, MO 64067

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ZENITH TRANS - OCEANIC collection, all are AC tube type. Chassis types 6A40 (2), 7G605, 5G740 (2), 5H40, $300 for all six. Eugene E. Folger, RADIO, 29 South Avenue, Whitman, MA 02382

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HOWARD TABLE MODEL RADIO model 575 and other table models. Two 1917 WWI books. Russell Schoen, E 7340 Nietzhe Road, Clintonville, WI 54929.

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EDISON C2 RADIO / PHONO, 1928, good cond. Manual and warranty card present, not running, needs work, $400. Eugene E. Folger, RADIO, 29 South Avenue, Whitman, MA 02382.

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RADIOS, TV's, related items. Send SA2SE for list. John Kendall, P. O. Box 436, Fallston, MD 21047.

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BLACK and WHITE new yokes and flybacks 2 thru 167 — $15. postpaid— Don Aldred, 39 East 8th Street, Jacksonville, FL 32206.

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P. S. ELMER O. OSTERHOUDT OF MODERN RADIO LABORATORIES, MRL, of California passed away a couple of months ago. He was the leading authority on crystal sets and vacuum tube old radios. Through his encouragement, MIDCO was founded, and hopefully will carry on where he left off since starting MRL in 1932. For more details, write the following family member: Mel Osterhoudt, 11 Summerwalk Ct., Nuport Beach, CA 92663.

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FOR SALE; UNUSED AND USED TUBES, capacitors, speakers, phono cartridges and needles. C. Elmer Nelson, 11 S. Church Street, Princeton, IL 61356.

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BEAUTIFUL, COLORFUL, ENAMEL radio-related tie clasps and label pins with emblems of Philco, G.E., R.C.A. and others. Must see to appreciate. Send a L.S.A.S.E. for completed illustrated list. Mr. Michael S. Sabodish Sr., 11-A Matawan Avenue, Cliffwood, NJ 07721.

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FOR SALE: "MARY-O-DYNE" - 1925 5 TUBE, TRF BATTERY OPERATED MODEL 512C (AMBER MFG. CO. N.Y.C.) — PHILCO MODEL 37-611 1936 — MAJESTIC - MODEL 381 - "PIRATES CHEST") — VIBROFLEX WIRELESS KEY — R.C.A. HORN SPEAKER MODEL UZ1325 — DeFOREST LOOP ANTENNA —— ALL FOR $275.00 ——— C. D'ALESSIO, 136 CHANGEBRIDGE ROAD - K4, MONTVILLE, NJ 07045. (201) 263- 4747.

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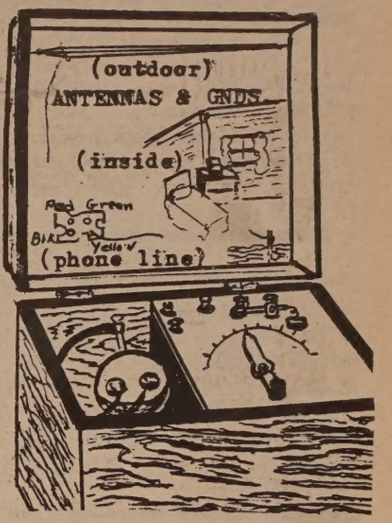

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WANTED: DIAL AND SWITCH KNOB for Crosley model 148, original or close to original. Gary Cappoen, 18025 NE Chehalem Drive, Newberg, OR 97132.

WANTED: OLD HAM SETS, CB's, military sets, manuels, etc. Working or not, WOOD, 7304 Dixon Avenue, Tampa, FL 33604.

WANTED: AK CATALOGS, OWNER'S MANUALS, SIGNS, POSTERS, PLAYING CARDS, ETC., ANY FACTORY ADVERTISING MATERIAL; AK 35, SN LOWER THAN 730,000 AND HIGHER THAN 1,000,000) AK 36, (SN LOWER THAN 2,610,000) AK 48, (SN BETWEEN 644,000 AND 950,000) MODEL R POWER SUPPLY, MODEL R HORN, MODEL K SPEAKER, AK 30 (SN OVER 1,000,000) RAYMOND THOMPSON, 7422 CHERRY TREE DRIVE, FULTON, MD 20759.

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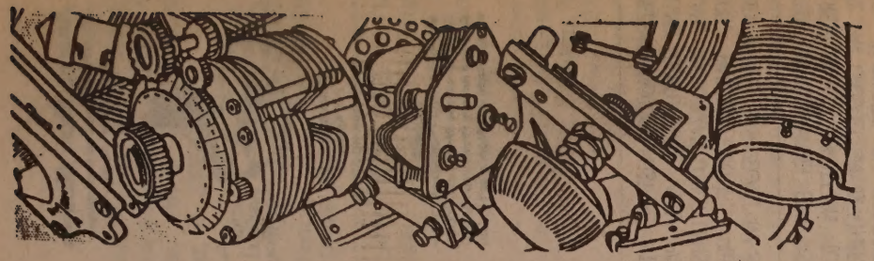

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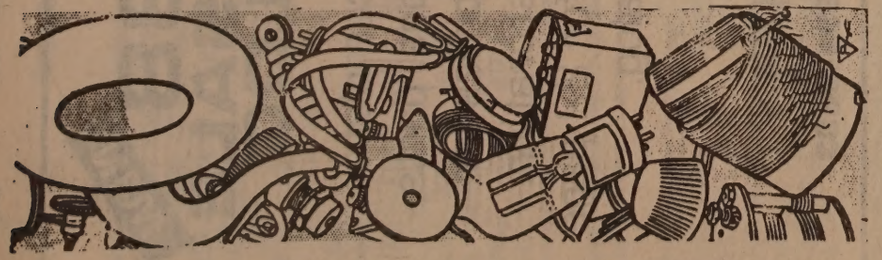

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